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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/940,063

DATE: 11/13/2001

TIME: 15:11:42

Input Set : N:\Crf3\RULE60\09940063.txt
 Output Set: N:\CRF3\11132001\I940063.raw

4 <110> APPLICANT: Briskin, Michael J.
 5 Murphy, Kristine E.
 6 Wilbanks, Alyson M.
 7 Wu, Lijun
 9 <120> TITLE OF INVENTION: Novel Antibodies and Ligands for "Bonzo"
 10 Chemokine Receptor
 12 <130> FILE REFERENCE: 1855.1070000
 14 <140> CURRENT APPLICATION NUMBER: 09/940,063
 15 <141> CURRENT FILING DATE: 2001-08-27
 17 <150> PRIOR APPLICATION NUMBER: 09/449,437
 18 <151> PRIOR FILING DATE: 1999-11-24
 20 <160> NUMBER OF SEQ ID NOS: 18
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 25 <211> LENGTH: 1029
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Homo sapiens
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 32 gtgttgtct gtggctgtgt ggggaactct ctgggtctgg tcataatccat cttctaccat 180
 33 aagtgcaga gcctgacgga tgggttcctg gtgaacctac ccctggctga cctgggttt 240
 34 gtctgcactc tgccctctg ggcctatgca ggcatccatg aatgggtgtt tggccaggtc 300
 35 atgtcaaga gcctactggg catctacact attaacttct acacgtccat gctcatccctc 360
 36 acctgcatac ctgtggatcg tttcattgtt gtggtaagg ccaccaaggc ctacaaccag 420
 37 caagccaaga ggatgacactg gggcaaggc accagttgc tcatactgggt gatatccctg 480
 38 ctggtttcct tgccccaaat tatctatggc aatgtcttta atctcgacaa gctcatatgt 540
 39 ggttaccatg acgaggcaat ttccactgtg gttcttgcca cccagatgac actggggttc 600
 40 ttcttgccac tgctcaccat gattgtctgc tattcagtca taataaaaac actgtttcat 660
 41 gctggaggct tccagaagca cagatctcta aagatcatct tcctgggtat ggctgtgttc 720
 42 ctgctgaccc agatgccctt caacctcatg aagttcatcc gcagcacaca ctggaaatac 780
 43 tatgccatga ccagcttca ctacaccatc atggtgacag aggccatcgc atacctgagg 840
 44 gcctgcctta accctgtgtct atatgcctt gtcagcctga agtttcgaaa gaacttctgg 900
 45 aaacttgtga aggacattgg ttgcctccct tacttgggg ttcacatca atggaaatct 960
 46 tctgaggaca attccaagac ttttctgccc tcccacaatg tggaggccac cagcatgttc 1020
 47 cagttatacg 1029
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 50 <211> LENGTH: 342
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 52 <213> ORGANISM: Homo Sapiens
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 59 Phe Leu Pro Cys Met Tyr Leu Val Val Phe Val Cys Gly Leu Val Gly
 60 35 40 45

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| 61 | Asn | Ser | Leu | Val | Leu | Val | Ile | Ser | Ile | Phe | Tyr | His | Lys | Leu | Gln | Ser |
| 62 | 50 | | | | 55 | | | | | 60 | | | | | | |
| 63 | Leu | Thr | Asp | Val | Phe | Leu | Val | Asn | Leu | Pro | Leu | Ala | Asp | Leu | Val | Phe |
| 64 | 65 | | | | 70 | | | | 75 | | | | | 80 | | |
| 65 | Val | Cys | Thr | Leu | Pro | Phe | Trp | Ala | Tyr | Ala | Gly | Ile | His | Glu | Trp | Val |
| 66 | | 85 | | | | 90 | | | | 95 | | | | | | |
| 67 | Phe | Gly | Gln | Val | Met | Cys | Lys | Ser | Leu | Leu | Gly | Ile | Tyr | Thr | Ile | Asn |
| 68 | | 100 | | | | 105 | | | | 110 | | | | | | |
| 69 | Phe | Tyr | Thr | Ser | Met | Leu | Ile | Leu | Thr | Cys | Ile | Thr | Val | Asp | Arg | Phe |
| 70 | | 115 | | | | 120 | | | | 125 | | | | | | |
| 71 | Ile | Val | Val | Val | Lys | Ala | Thr | Lys | Ala | Tyr | Asn | Gln | Gln | Ala | Lys | Arg |
| 72 | | 130 | | | | 135 | | | 140 | | | | | | | |
| 73 | Met | Thr | Trp | Gly | Lys | Val | Thr | Ser | Leu | Leu | Ile | Trp | Val | Ile | Ser | Leu |
| 74 | 145 | | | 150 | | | | | 155 | | | 160 | | | | |
| 75 | Leu | Val | Ser | Leu | Pro | Gln | Ile | Ile | Tyr | Gly | Asn | Val | Phe | Asn | Leu | Asp |
| 76 | | | 165 | | | | 170 | | | 175 | | | | | | |
| 77 | Lys | Leu | Ile | Cys | Gly | Tyr | His | Asp | Glu | Ala | Ile | Ser | Thr | Val | Val | Leu |
| 78 | | | 180 | | | | 185 | | | 190 | | | | | | |
| 79 | Ala | Thr | Gln | Met | Thr | Leu | Gly | Phe | Phe | Leu | Pro | Leu | Leu | Thr | Met | Ile |
| 80 | | 195 | | | | 200 | | | 205 | | | | | | | |
| 81 | Val | Cys | Tyr | Ser | Val | Ile | Ile | Lys | Thr | Leu | Leu | His | Ala | Gly | Gly | Phe |
| 82 | | 210 | | | | 215 | | | 220 | | | | | | | |
| 83 | Gln | Lys | His | Arg | Ser | Leu | Lys | Ile | Ile | Phe | Leu | Val | Met | Ala | Val | Phe |
| 84 | 225 | | | 230 | | | | | 235 | | | 240 | | | | |
| 85 | Leu | Leu | Thr | Gln | Met | Pro | Phe | Asn | Leu | Met | Lys | Phe | Ile | Arg | Ser | Thr |
| 86 | | | 245 | | | | 250 | | | 255 | | | | | | |
| 87 | His | Trp | Glu | Tyr | Tyr | Ala | Met | Thr | Ser | Phe | His | Tyr | Thr | Ile | Met | Val |
| 88 | | 260 | | | | 265 | | | 270 | | | | | | | |
| 89 | Thr | Glu | Ala | Ile | Ala | Tyr | Leu | Arg | Ala | Cys | Leu | Asn | Pro | Val | Leu | Tyr |
| 90 | | 275 | | | | 280 | | | 285 | | | | | | | |
| 91 | Ala | Phe | Val | Ser | Leu | Lys | Phe | Arg | Lys | Asn | Phe | Trp | Lys | Leu | Val | Lys |
| 92 | | 290 | | | | 295 | | | 300 | | | | | | | |
| 93 | Asp | Ile | Gly | Cys | Leu | Pro | Tyr | Leu | Gly | Val | Ser | His | Gln | Trp | Lys | Ser |
| 94 | 305 | | | 310 | | | | | 315 | | | 320 | | | | |
| 95 | Ser | Glu | Asp | Asn | Ser | Lys | Thr | Phe | Ser | Ala | Ser | His | Asn | Val | Glu | Ala |
| 96 | | | | | 325 | | | | 330 | | | 335 | | | | |
| 97 | Thr | Ser | Met | Phe | Gln | Leu | | | | | | | | | | |
| 98 | | 340 | | | | | | | | | | | | | | |
| 100 | <210> | SEQ | ID | NO: | 3 | | | | | | | | | | | |
| 101 | <211> | LENGTH: | 1763 | | | | | | | | | | | | | |
| 102 | <212> | TYPE: | DNA | | | | | | | | | | | | | |
| 103 | <213> | ORGANISM: | Homo sapiens | | | | | | | | | | | | | |
| 105 | <400> | SEQUENCE: | 3 | | | | | | | | | | | | | |
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| 107 | ttctgctcct | gctgggtac | ctgactcagc | caggcaatgg | caacgagggc | agcgtcactg | | | | | | | | 120 | | |
| 108 | gaagttgtta | tttgtggtaaa | agaatttctt | ccgactcccc | gccatcggtt | cagttcatga | | | | | | | | 180 | | |
| 109 | atcgctccg | gaaacacactg | agagcttacc | atcggtgtct | atactacacg | aggttccagc | | | | | | | | 240 | | |
| 110 | tccttcctg | gagcgtgtgt | ggaggcaaca | aggacccatg | ggttcaggaa | tttatgagct | | | | | | | | 300 | | |
| 111 | gtcttgatct | caaagaatgt | ggacatgctt | actcgccat | tgtggccac | cagaagcatt | | | | | | | | 360 | | |

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| 113 | cccctgccc | gatgtcctg | tccaccttgc | agtccactca | gcgc(ccacc | ctcccagtag | 480 | |
| 114 | gatca | ctcgacaaa | gagctcactc | gtcccaatga | aaccaccatt | cacactgcgg | 540 | |
| 115 | gccacagtct | ggcagg | ttgg cccac | cttgaggctg | gggagaacca | gaagcagccg | 600 | |
| 116 | ctgg | agccaggaca | tcagccacag | tgccggtcct | gtgcctcctg | gccatcatct | 660 | |
| 117 | tcatc | cgcagccct | tcctatgtc | tgtcaagag | gaggaggggg | cagtcaccgc | 720 | |
| 118 | agtcc | ctcc | agatctgccc | gttcattata | tacctgtggc | acctgactct | aatacctgag | 780 |
| 119 | ccaagaatgg | aagctgtga | ggagacggac | tctatgtgc | ccaggctgtt | atgaaactcc | 840 | |
| 120 | tgagtcaagt | gatc | ccttggcctc | tgaagg | aggattatag | gcgtcaccta | 900 | |
| 121 | ccacatccag | cctacacgt | tttgttaata | tctaaca | gactaaccag | ccactgcct | 960 | |
| 122 | ctctt | aggcc | cctcattaa | aaacggttat | actataaaat | ctgctttca | cactgggtga | 1020 |
| 123 | taataactt | gacaaattct | atgtgtattt | tgtttgttt | tgctttgctt | tgtttgaga | 1080 | |
| 124 | cggagtctcg | ctctgtc | caggctggag | tgca | tgatctcggc | tcactgcaac | 1140 | |
| 125 | ccccatctcc | cagg | tcaag | cgattctcct | gcctcc | gagtagctgg | gactacaggt | 1200 |
| 126 | gctc | accacc | acaccggct | attttttgt | atttttagta | gagaccgggg | tttaccatg | 1260 |
| 127 | ttgaccaggc | ttgtctcgaa | ctcctgac | ctgc | ccacccaggc | ctcccaaagt | 1320 | |
| 128 | gtgggatt | aagg | gtgag | ccaccatg | cc | tggcctatg | tgtgtttt | 1380 |
| 129 | aattat | ttt | gtatgatt | agtcttctt | atggaaaca | ctggcctc | ag ccgtcgcc | 1440 |
| 130 | cttactgt | ttc | cttggc | tttgc | tgatgg | ccctcg | ttccaaatctct | 1500 |
| 131 | cccg | actac | cagtgttcc | tcccccac | cagcc | ctgc | catcctc | 1560 |
| 132 | aacgaagg | cc | ggc | tggc | tttcc | ccttagc | tgccgtctg | 1620 |
| 133 | cgggttgg | tt | tcaccc | cctc | agtcc | ctaccc | gagagtctga | 1680 |
| 134 | attgttatt | ttt | tatt | tattgtttt | attatcatta | aaactct | agt tcttagt | 1740 |
| 135 | tctctccgaa | aaaa | aaaaaaa | aaa | | | | 1763 |

137 <210> SEQ ID NO: 4

138 <211> LENGTH: 254

139 <212> TYPE: PRT

140 <213> ORGANISM: Homo sapiens

142 <400> SEQUENCE: 4

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| 144 | 1 | | | | 5 | | | | 10 | | | 15 | | | |
| 145 | Leu | Leu | Leu | Leu | Val | Tyr | Leu | Thr | Gln | Pro | Gly | Asn | Gly | Asn | Glu |
| 146 | | | | | | 20 | | | 25 | | | 30 | | | |
| 147 | Ser | Val | Thr | Gly | Ser | Cys | Tyr | Cys | Gly | Lys | Arg | Ile | Ser | Ser | Asp |
| 148 | | | | | | 35 | | | 40 | | | 45 | | | |
| 149 | Pro | Pro | Ser | Val | Gln | Phe | Met | Asn | Arg | Leu | Arg | Lys | His | Leu | Arg |
| 150 | | | | | | 50 | | | 55 | | | 60 | | | |
| 151 | Tyr | His | Arg | Cys | Leu | Tyr | Tyr | Thr | Arg | Phe | Gln | Leu | Leu | Ser | Trp |
| 152 | | | | | | 65 | | | 70 | | | 75 | | | 80 |
| 153 | Val | Cys | Gly | Gly | Asn | Lys | Asp | Pro | Trp | Val | Gln | Glu | Leu | Met | Ser |
| 154 | | | | | | 85 | | | 90 | | | 95 | | | |
| 155 | Leu | Asp | Leu | Lys | Glu | Cys | Glu | His | Ala | Tyr | Ser | Gly | Ile | Val | Ala |
| 156 | | | | | | 100 | | | 105 | | | 110 | | | |
| 157 | Gln | Lys | His | Leu | Leu | Pro | Thr | Ser | Pro | Pro | Thr | Ser | Gln | Ala | Ser |
| 158 | | | | | | 115 | | | 120 | | | 125 | | | |
| 159 | Gly | Ala | Ser | Ser | Asp | Ile | His | Thr | Pro | Ala | Gln | Met | Leu | Leu | Ser |
| 160 | | | | | | 130 | | | 135 | | | 140 | | | |
| 161 | Leu | Gln | Ser | Thr | Gln | Arg | Pro | Thr | Leu | Pro | Val | Gly | Ser | Leu | Ser |
| 162 | 145 | | | | 150 | | | | 155 | | | 160 | | | |

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| 163 | Asp Lys Glu Leu Thr Arg Pro Asn Glu Thr Thr Ile His Thr Ala Gly | | | |
| 164 | 165 | 170 | 175 | |
| 165 | His Ser Leu Ala Val Gly Pro Glu Ala Gly Glu Asn Gln Lys Gln Pro | | | |
| 166 | 180 | 185 | 190 | |
| 167 | Glu Lys Asn Ala Gly Pro Thr Ala Arg Thr Ser Ala Thr Val Pro Val | | | |
| 168 | 195 | 200 | 205 | |
| 169 | Leu Cys Leu Leu Ala Ile Ile Phe Ile Leu Thr Ala Ala Pro Ser Tyr | | | |
| 170 | 210 | 215 | 220 | |
| 171 | Val Leu Cys Lys Arg Arg Gly Gln Ser Pro Gln Ser Ser Pro Asp | | | |
| 172 | 225 | 230 | 235 | 240 |
| 173 | Leu Pro Val His Tyr Ile Pro Val Ala Pro Asp Ser Asn Thr | | | |
| 174 | 245 | 250 | | |
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| 177 | <211> LENGTH: 2309 | | | |
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| 179 | <213> ORGANISM: Homo sapiens | | | |
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| 183 | gcccggatcg gggaaagtcaa agtgccttgg aggaggaggg ccgggtccggc aatgcggccg | 120 | | |
| 184 | cctcacaggc cggcgacgg gccaggcggg cggcccttcgt aaccgaaccg aatcggttcc | 180 | | |
| 185 | tccggccgtc gtccctccgc ccctccttcgt ccggccggg agttttttttt cggttttttc | 240 | | |
| 186 | caagatttcgtt ggccttcgtt cgcacggagcc gggcccgatgt cggggggcgca gggcgccgg | 300 | | |
| 187 | gtccaccccttc tccggctttc cctgcgttcca gaggtggca tggcgccggc cgagtactga | 360 | | |
| 188 | gcgcacgggtc ggggcacagc agggccgggt ggtgcagctg gtcgcgcct ccttcggc | 420 | | |
| 189 | cgccgtctcc tccggtcccc ggcgaaagcc attgagacac cagctggacg tcacgcgcgg | 480 | | |
| 190 | gagcatgtct gggagtcaga gcgaggtggc tccatccccg cagatccgc ggagccccga | 540 | | |
| 191 | gtggggacgg gacttgcggc ccgggtcccg cgtgttccgt ctccgttcc tcgttctgtct | 600 | | |
| 192 | gggtgtacctg actcagccag gcaatggcaa cgagggcagc gtcaactggaa gttgttattt | 660 | | |
| 193 | tggtaaaaaga atttcttccg actccccggc atcggtttag ttcatgaatc gtccggaa | 720 | | |
| 194 | acacctgaga gcttaccatc ggtgttata ctacacgagg ttccagtc ttcttggag | 780 | | |
| 195 | cgtgtgttgg ggcacaacaagg acccatgggt tcaggaattt atgagctgtc ttatctcaa | 840 | | |
| 196 | agaatgttgg catgttact cggggattgt ggcaccacag aagcatttac ttcttaccag | 900 | | |
| 197 | cccccccaact tctcaggcct cagagggggc atcttcgtat atccacacccc ctggccagat | 960 | | |
| 198 | gtccctgtcc accttgcagt ccactcagcg cccacccctc ccagtaggat cactgttcc | 1020 | | |
| 199 | ggacaaaagag ctcactcgcc ccaatgaaac caccattcac actgcgggac acatgttggc | 1080 | | |
| 200 | agttgggcct gaggctgggg agaaccagaa gcagccggaa aaaaatgttg gtcccacage | 1140 | | |
| 201 | caggacatca gccacagtgc cggccttgc ccttcggcc atcatcttca tcctcaccgc | 1200 | | |
| 202 | agccctttcc tatgtgttgc gcaagaggag gagggggcag tcaccgcagt ccttcggc | 1260 | | |
| 203 | tctggcggtt cattataac ctgtggcacc tgactctaat acctgagcca agaatggaa | 1320 | | |
| 204 | tttgtgagga gacggactct atgttgccta ggctgtttag gaactcttgc gtcaagtgtat | 1380 | | |
| 205 | cctcccacct tggcctctgtt aggtgcgagg attataggcg tcaccttacca catccagc | 1440 | | |
| 206 | acacgttattt gttaatatct aacataggac taaccagcca ctgccttc ttggccctt | 1500 | | |
| 207 | cattaaaaaa cggttatact ataaaaatctg cttttcacac tgggtgataa taacttggac | 1560 | | |
| 208 | aaattctatg tgtatttgt tttgtttgc tttgtttgt tttgagacgg agtctcgctc | 1620 | | |
| 209 | tgtcatccag gctggagtgc agtggcatga tctcggctca ctgcaacccc catctccag | 1680 | | |
| 210 | gttcaagcga ttctcctgcc tcctcctaag tagctggac tacaggtgtt caccaccaca | 1740 | | |
| 211 | ccggcataat tttttgttatt ttttagtagag acggggtttc accatgttga ccaggcttgg | 1800 | | |
| 212 | ctcgaactcc tgacctgggtt atctgcccac ccaggcctcc caaaatgttgc ggattaaagg | 1860 | | |
| 213 | tgtgagccac catgcctggc cctatgttgc ttttttaact actaaaaatt aatttttgc | 1920 | | |

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214 tgattgagtc ttctttatgg aaacaactgg cctcagccct tgcgcccta ctgtgattcc
 215 tggcttcatt ttttgcgtat ggttccccct cgtcccaa at ctctctccca gtacaccagt
 216 tggcctccc ccacccatc cctctcctgc atccctcctgt acccgaaacg aaggcctggg
 217 ctttcccacc ctccctcctt agcaggtgcc gtgctggac accatacggg ttgggttcac
 218 ctccctcagtc ccttgccatc cccagtgaga gtctgatctt gtttttatgg ttatgtctt
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 223 <212> TYPE: PRT
 224 <213> ORGANISM: Homo sapiens
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 229 20 25 30
 230 Ser Val Thr Gly Ser Cys Tyr Cys Gly Lys Arg Ile Ser Ser Asp Ser
 231 35 40 45
 232 Pro Pro Ser Val Gln Phe Met Asn Arg Leu Arg Lys His Leu Arg Ala
 233 50 55 60
 234 Tyr His Arg Cys Leu Tyr Tyr Thr Arg Phe Gln Leu Leu Ser Trp Ser
 235 65 70 75 80
 236 Val Cys Gly Gly Asn Lys Asp Pro Trp Val Gln Glu Leu Met Ser Cys
 237 85 90 95
 238 Leu Asp Leu Lys Glu Cys Gly His Ala Tyr Ser Gly Ile Val Ala His
 239 100 105 110
 240 Gln Lys His Leu Leu Pro Thr Ser Pro Pro Thr Ser Gln Ala Ser Glu
 241 115 120 125
 242 Gly Ala Ser Ser Asp Ile His Thr Pro Ala Gln Met Leu Leu Ser Thr
 243 130 135 140
 244 Leu Gln Ser Thr Gln Arg Pro Thr Leu Pro Val Gly Ser Leu Ser Ser
 245 145 150 155 160
 246 Asp Lys Glu Leu Thr Arg Pro Asn Glu Thr Thr Ile His Thr Ala Gly
 247 165 170 175
 248 His Ser Leu Ala Val Gly Pro Glu Ala Gly Glu Asn Gln Lys Gln Pro
 249 180 185 190
 250 Glu Lys Asn Ala Gly Pro Thr Ala Arg Thr Ser Ala Thr Val Pro Val
 251 195 200 205
 252 Leu Cys Leu Leu Ala Ile Ile Phe Ile Leu Thr Ala Ala Leu Ser Tyr
 253 210 215 220
 254 Val Leu Cys Lys Arg Arg Arg Gly Gln Ser Pro Gln Ser Ser Pro Asp
 255 225 230 235 240
 256 Leu Pro Val His Tyr Ile Pro Val Ala Pro Asp Ser Asn Thr
 257 245 250
 258 <210> SEQ ID NO: 7
 259 <211> LENGTH: 439
 260 <212> TYPE: DNA
 261 <213> ORGANISM: Homo sapiens
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